

We claim:

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The steps of:

5 folding a web of plastic to form an elongate folded web having free ends;

 securing closer tape to the free ends of the elongate folded web;
 forming end stops in the closer tape at spaced locations thereof,
such step including the step of creating an indicia in each of the end stops; and
10 simultaneously severing and sealing the elongate folded web at
each of the spaced locations to produce individual bags.

 2. The method of claim 1, wherein the step of forming end stops
comprises the step of ultrasonically embossing a pattern into the closer tape.

 3. The method of claim 2, wherein the step of ultrasonically
embossing includes the step of moving a weld horn toward an anvil wherein the
zipper tape is captured between the weld horn and the anvil.

 4. The method of claim 3, wherein the pattern is formed by a
textured surface of the anvil.

 5. The method of claim 3, wherein the pattern is formed by a
textured surface of a horn.

 6. The method of claim 3, wherein the indicia is formed by a
button removably received in a bore in the anvil.

 7. The method of claim 6, wherein the indicia designates a
30 production line that produced the plastic bags.

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8. The method of claim 7, wherein the indicia designates a period of time during which the bags were produced.

9. The method of claim 1, wherein the step of forming the end stops comprises the step of embossing first and second different indicia on opposite sides of each of a plurality of bag end locations and wherein the step of simultaneously severing and sealing comprises the step of severing and sealing the elongate folded web at positions substantially coincident with each of the bag end locations.

10. The method of claim 9, wherein the first indicia designates a production line that produced the plastic bags.

11. The method of claim 10, wherein the second indicia designates a period of time at which the bags were produced.

12. The method of claim 1, including the further step of slidably attaching a slider to the closer tape.

13. The method of claim 1, further including the step of forming a knurled pattern in the web of plastic at a point adjacent the end stop.

14. The method of claim 13, wherein the knurled pattern is formed by a movable portion of an anvil.

15. The method of claim 14, wherein the movable portion is moved by a threaded rod.

16. The method of claim 14, wherein the movable portion is movable by/at least one screw disposed in a threaded bore.

SECRET

17. The method of claim 1, including the step of forming a sealed portion in the closer tape adjacent a closer profile.

18. The method of claim 17, wherein the step of forming a sealed
5 portion includes the step of guiding the closer tape using at least one upstanding surface.

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19. A method of producing a plastic bag, the method comprising the steps of:

folding a web of plastic to form an elongate folded web having free ends;

5 securing closer tape to the free ends of the elongate folded web;

forming first and second end stops in the closer tape at spaced locations thereof, such step including the steps of welding portions of at least one of the closer tape and the folded web together at first and second areas adjacent the first and second end stops, respectively, and creating an indicia in at least one of the first and second areas and the first and second end stops; and

10 simultaneously severing and sealing the elongate folded web at each of the spaced locations to produce a bag.

20. The method of claim 19, wherein the step of forming the first and second end stops comprises the step of ultrasonically embossing a pattern into the closer tape.

21. The method of claim 20, wherein the step of ultrasonically embossing includes the step of moving a weld horn toward an anvil wherein the zipper tape is captured between the weld horn and the anvil.

22. The method of claim 21, wherein the pattern is formed by a textured surface of the anvil.

23. The method of claim 21, wherein the pattern is formed by a textured surface of a horn.

24. The method of claim 21, wherein the indicia is formed by a button removably received in a bore in the anvil.

25. The method of claim 24, wherein the indicia designates a production line that produced the plastic bags.

09872378 060101

26. The method of claim 24, wherein the indicia designates a period of time during which the bags were produced.

5 27. The method of claim 19, wherein the step of forming the first and second end stops comprises the step of embossing first and second different indicia on opposite sides of each of first and second bag end locations and wherein the step of simultaneously severing and sealing comprises the step of
10 severing and sealing the elongate folded web at positions substantially coincident with each of the first and second bag end locations.

28. The method of claim 27, wherein the first indicia designates a production line that produced the plastic bags.

15 29. The method of claim 28, wherein the second indicia designates a period of time at which the bags were produced.

30. The method of claim 19, including the further step of slidably attaching a slider to the closer tape.

20 31. The method of claim 19, wherein the first and second areas include a knurled pattern in the web of plastic.

25 32. The method of claim 31, wherein the knurled pattern is formed by a movable portion of an anvil.

33. The method of claim 32, wherein the movable portion is moved by a threaded rod.

30 34. The method of claim 33, wherein the movable portion is movable by at least one screw disposed in a threaded bore.

00072378-060101

35. The method of claim 19, including the step of forming a sealed portion in the web adjacent a closer profile.

5 36. The method of claim 35, wherein the step of forming a sealed portion includes the step of guiding the closer tape using at least one upstanding portion of a slider ring.

09872378-060101

37. In an apparatus for producing plastic bags from an elongate web of folded plastic having closer tape secured to free ends of the elongate plastic web, the improvement comprising:

5 apparatus that forms end stops in the closer tape at spaced locations thereof, the apparatus including a surface that creates an indicia when each end stop is formed.

38. The improvement of claim 37, wherein the indicia is created in the closer tape.

39. The improvement of claim 37, wherein the apparatus also forms a welded area in the elongate plastic web adjacent each end stop.

40. The improvement of claim 39, wherein the indicia is created in the welded areas.

41. The improvement of claim 37, wherein the apparatus comprises an ultrasonic welding device.

42. The improvement of claim 41, wherein one of the parts comprises an ultrasonic horn and another of the parts comprises an anvil.

43. The improvement of claim 42, wherein the insert is disposed in a bore in the anvil. *JAB*

44. The improvement of claim 43, wherein each end stop is formed by a textured surface of the anvil.

45. The improvement of claim 43, wherein each end stop is formed by a textured surface of a movable horn.

46. The improvement of claim 44, wherein the textured surface has an outer periphery and wherein the insert comprises a removable button having an embossing surface disposed within the outer periphery.

5 47. The improvement of claim 46, wherein the indicia identifies a production line of which the apparatus is a part.

48. The improvement of claim 46, wherein the indicia identifies a period of time during which the plastic bags were produced.

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49. The improvement of claim 37, wherein the apparatus carries a pair of inserts that create first and second indicia in the closer tape on opposite sides of each of a plurality of bag end locations.

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50. The improvement of claim 49, wherein the first indicia designates a production line that produced the plastic bags.

51. The improvement of claim 50, wherein the second indicia designates a period of time at which the bags were produced.

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52. The improvement of claim 37, wherein a knurled pattern is formed in the closer tape by a movable portion of an anvil.

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53. The improvement of claim 52, wherein the movable portion is moved by a threaded rod.

54. The improvement of claim 52, wherein the movable portion is movable by at least one screw disposed in a threaded bore.

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55. The improvement of claim 37, including a portion carried by and anvil and which forms a sealed portion in the closer tape adjacent a closer profile.

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56. The improvement of claim 55, further including at least one surface that guides the closer tape.

57. The improvement of claim 37, wherein the apparatus includes
5 an insert that carries the surface that creates the indicia.

09872378 060101

58. Apparatus for producing plastic bags from an elongate folded web of plastic having closer tape secured to free ends of the elongate folded web, comprising:

5 means for forming end stops in the closer tape, the forming means including means for creating an indicia in one of the closer tape and the folded web of plastic; and

means for separating and sealing the elongate folded web at spaced locations thereof to produce individual bags.

10 59. The apparatus of claim 58, wherein the forming means comprises an ultrasonic welding device.

60. The apparatus of claim 59, wherein the ultrasonic welding device includes an ultrasonic horn and an anvil.

15 61. The apparatus of claim 60, wherein the anvil includes a textured surface that forms a pattern.

20 62. The apparatus of claim 60, wherein the ultrasonic horn includes a textured surface that forms a pattern.

25 63. The apparatus of claim 61, wherein the textured surface has an outer periphery and the indicia is formed by a surface of a button and wherein the button surface is disposed in the outer periphery.

64. The apparatus of claim 63, wherein the button is removably received in a bore in the anvil.

30 65. The apparatus of claim 61, wherein the textured surface has an outer periphery and first and second indicia are formed by first and second surfaces of first and second buttons, respectively, wherein the first and second surfaces are disposed in the outer periphery.

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66. The apparatus of claim 65, wherein the buttons are removably received in bores in the anvil.

5 67. The apparatus of claim 58, wherein the indicia is created in the closer tape.

10 68. The apparatus of claim 58, wherein the indicia is created in the folded web of plastic adjacent each stop.

15 69. The apparatus of claim 58, wherein a knurled pattern is formed in the closer tape by a movable portion of an anvil.

20 70. The apparatus of claim 69 wherein the movable portion is moved by a threaded rod.

25 71. The apparatus of claim 69, wherein the movable portion is movable by at least one screw disposed in a threaded bore.

72. The apparatus of claim 58, including means for forming a sealed portion in the closer tape adjacent a closer profile.

73. The apparatus of claim 72, further including upstanding surfaces that guide the closer tape.

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an ultrasonic welding device operable to form end stops in the closer tape, the ultrasonic welding device including at least one removable button that creates an indicia; and

75. The apparatus of claim 74, wherein the ultrasonic welding device includes a movable horn and an anvil.

76. The apparatus of claim 75, wherein the anvil includes a textured surface having an outer periphery and wherein first and second removable buttons are disposed in bores in the anvil on opposite sides of a centerline.

77. The apparatus of claim 76, wherein the first removable button creates a first indicia and the second removable button creates a second indicia.

78. The apparatus of claim 77, wherein the first and second indicia are different.

79. The apparatus of claim 75, wherein the horn includes a textured surface.

80. The apparatus of claim 74, wherein the indicia is created in each/end stop.

81. The apparatus of claim 74, wherein the indicia is created in the elongate folded web adjacent each end stop.

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83. The apparatus of claim 82, wherein the movable portion is moved by a threaded rod.

85. The apparatus of claim 74, including means for forming a sealed portion in the closer tape adjacent a closer profile.

86. The apparatus of claim 85, further including a slider ring having surfaces that guide the closer tape.

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